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* * * * * Welcome to STN International * * * * *

NEWS	1		Web Page for STN Seminar Schedule - N. America
NEWS	2	JAN 02	STN pricing information for 2008 now available
NEWS	3	JAN 16	CAS patent coverage enhanced to include exemplified prophetic substances
NEWS	4	JAN 28	USPATFULL, USPAT2, and USPATOLD enhanced with new custom IPC display formats
NEWS	5	JAN 28	MARPAT searching enhanced
NEWS	6	JAN 28	USGENE now provides USPTO sequence data within 3 days of publication
NEWS	7	JAN 28	TOXCENTER enhanced with reloaded MEDLINE segment
NEWS	8	JAN 28	MEDLINE and LMEDLINE reloaded with enhancements
NEWS	9	FEB 08	STN Express, Version 8.3, now available
NEWS	10	FEB 20	PCI now available as a replacement to DPCI
NEWS	11	FEB 25	IFIREF reloaded with enhancements
NEWS	12	FEB 25	IMSPRODUCT reloaded with enhancements
NEWS	13	FEB 29	WPINDEX/WPIDS/WPIX enhanced with ECLA and current U.S. National Patent Classification
NEWS	14	MAR 31	IFICDB, IFIPAT, and IFIUDB enhanced with new custom IPC display formats
NEWS	15	MAR 31	CAS REGISTRY enhanced with additional experimental spectra
NEWS	16	MAR 31	CA/CAPplus and CASREACT patent number format for U.S. applications updated
NEWS	17	MAR 31	LPCI now available as a replacement to LDPCI
NEWS	18	MAR 31	EMBASE, EMBAL, and LEMBASE reloaded with enhancements
NEWS	19	APR 04	STN AnaVist, Version 1, to be discontinued
NEWS	20	APR 15	WPIDS, WPINDEX, and WPIX enhanced with new predefined hit display formats
NEWS	21	APR 28	EMBASE Controlled Term thesaurus enhanced
NEWS	22	APR 28	IMSRESEARCH reloaded with enhancements
NEWS	23	MAY 30	INPAFAMDB now available on STN for patent family searching
NEWS	24	MAY 30	DGENE, PCTGEN, and USGENE enhanced with new homology sequence search option
NEWS	25	JUN 06	EPFULL enhanced with 260,000 English abstracts
NEWS	26	JUN 06	KOREAPAT updated with 41,000 documents
NEWS	27	JUN 13	USPATFULL and USPAT2 updated with 11-character patent numbers for U.S. applications
NEWS	28	JUN 19	CAS REGISTRY includes selected substances from web-based collections
NEWS	29	JUN 25	CA/CAPplus and USPAT databases updated with IPC reclassification data
NEWS	30	JUN 30	AEROSPACE enhanced with more than 1 million U.S. patent records
NEWS	31	JUN 30	EMBASE, EMBAL, and LEMBASE updated with additional options to display authors and affiliated organizations
NEWS	32	JUN 30	STN on the Web enhanced with new STN AnaVist Assistant and BLAST plug-in
NEWS	33	JUN 30	STN AnaVist enhanced with database content from EPFULL

NEWS EXPRESS JUNE 27 08 CURRENT WINDOWS VERSION IS V8.3,
AND CURRENT DISCOVER FILE IS DATED 23 JUNE 2008.

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NEWS LOGIN Welcome Banner and News Items
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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 14:56:27 ON 07 JUL 2008

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'CAPLUS' ENTERED AT 14:56:38 ON 07 JUL 2008

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FILE COVERS 1907 - 7 Jul 2008 VOL 149 ISS 2
FILE LAST UPDATED: 6 Jul 2008 (20080706/ED)

Caplus now includes complete International Patent Classification (IPC)
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=> e us2005-551572/apps

E1	1	US2005-551558/AP
E2	2	US2005-551559/AP
E3	1 -->	US2005-551572/AP
E4	0	US2005-551572/PRN
E5	1	US2005-551574/AP
E6	1	US2005-551578/AP
E7	1	US2005-551579/AP
E8	1	US2005-551580/AP

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E9          1      US2005-551584/AP
E10         2      US2005-551587/AP
E11         1      US2005-551590/AP
E12         1      US2005-551593/AP
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L1          1 US2005-551572/AP
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=> sel rn l1

E1 THROUGH E16 ASSIGNED

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	2.69	2.90

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STRUCTURE FILE UPDATES: 6 JUL 2008 HIGHEST RN 1032827-24-9
DICTIONARY FILE UPDATES: 6 JUL 2008 HIGHEST RN 1032827-24-9

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TSCA INFORMATION NOW CURRENT THROUGH January 9, 2008.

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experimental property data in the original document. For information
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<http://www.cas.org/support/stngen/stndoc/properties.html>

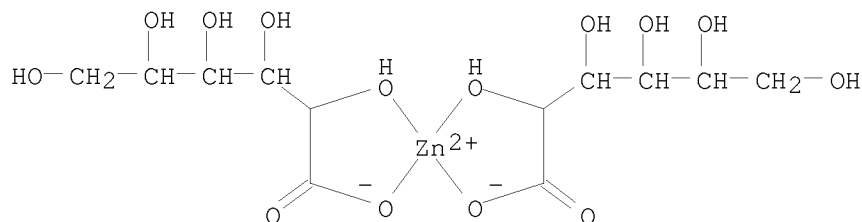
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1 4468-02-4/BI
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=> d scan 12

L2 16 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
 IN Zinc, bis(D-gluconato-κO1,κO2)-, (T-4)-
 MF C12 H22 O14 Zn
 CI CCS, COM



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):16

L2 16 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
 IN Copper
 ADDITIONAL NAMES NOT AVAILABLE IN THIS FORMAT
 MF Cu
 CI COM

Cu

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

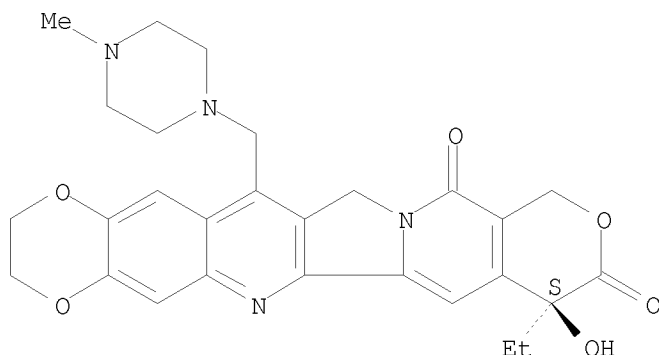
L2 16 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
 IN Cyclodextrin
 MF Unspecified
 CI COM, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L2 16 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
IN 11H-1,4-Dioxino[2,3-g]pyrano[3',4':6,7]indolizino[1,2-b]quinoline-
9,12(8H,14H)-dione, 8-ethyl-2,3-dihydro-8-hydroxy-15-[(4-methyl-1-
piperazinyl)methyl]-, (8S)-
MF C28 H30 N4 O6
CI COM

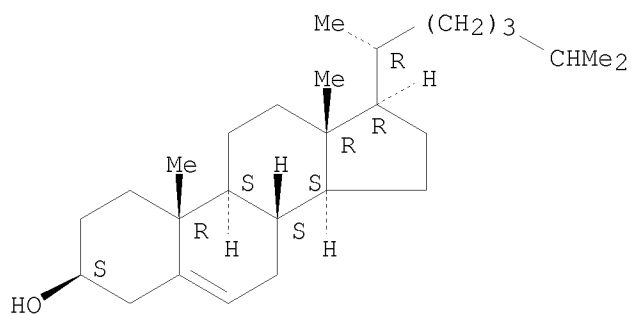
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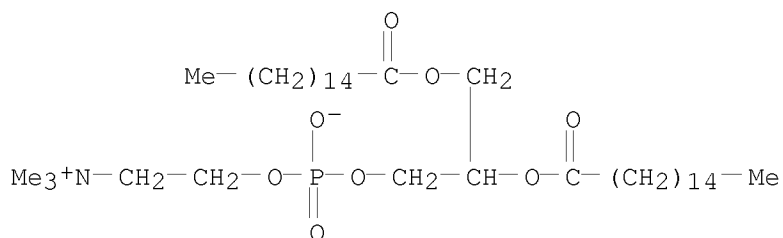
L2 16 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
IN Cholest-5-en-3-ol (3 β)-
MF C27 H46 O
CI COM

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L2 16 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
 IN 3,5,9-Trioxa-4-phosphapentacosan-1-aminium, 4-hydroxy-N,N,N-trimethyl-10-oxo-7-[(1-oxohexadecyl)oxy]-, inner salt, 4-oxide
 MF C40 H80 N O8 P
 CI COM



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

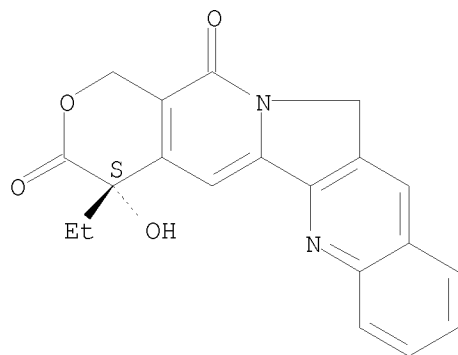
L2 16 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
 IN Cobalt
 MF Co
 CI COM

Co

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L2 16 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
 IN 1H-Pyrano[3',4':6,7]indolizino[1,2-b]quinoline-3,14(4H,12H)-dione, 4-ethyl-4-hydroxy-, (4S)-
 MF C20 H16 N2 O4
 CI COM

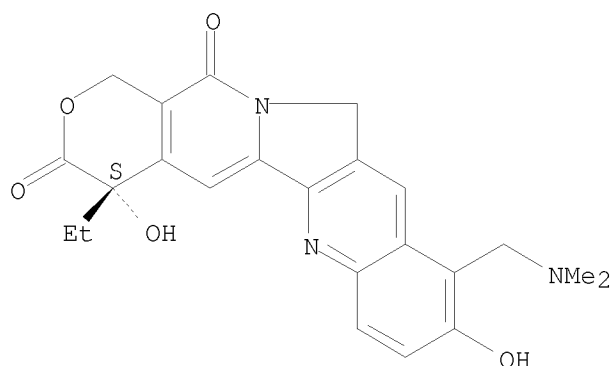
Absolute stereochemistry. Rotation (+).



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L2 16 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
IN 1H-Pyrano[3',4':6,7]indolizino[1,2-b]quinoline-3,14(4H,12H)-dione,
10-[(dimethylamino)methyl]-4-ethyl-4,9-dihydroxy-, (4S)-
MF C23 H23 N3 O5
CI COM

Absolute stereochemistry.

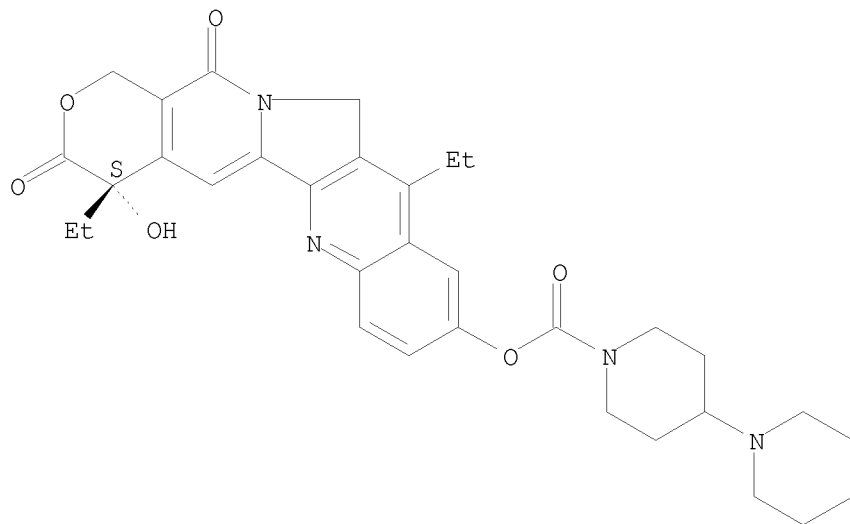


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L2 16 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
IN Uridine, 2'-deoxy-5-fluoro-, mixt. with (4S)-4,11-diethyl-3,4,12,14-tetrahydro-4-hydroxy-3,14-dioxo-1H-pyrano[3',4':6,7]indolizino[1,2-b]quinolin-9-yl [1,4'-bipiperidine]-1'-carboxylate
MF C33 H38 N4 O6 . C9 H11 F N2 O5
CI MXS

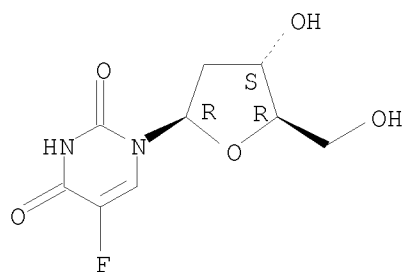
CM 1

Absolute stereochemistry. Rotation (+).



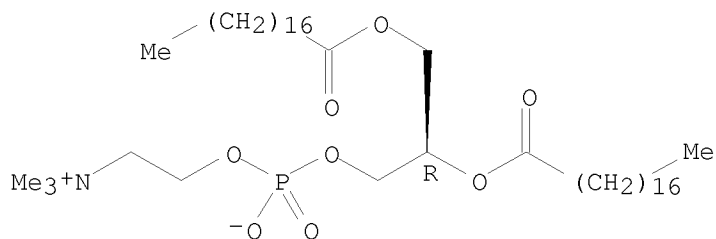
CM 2

Absolute stereochemistry.



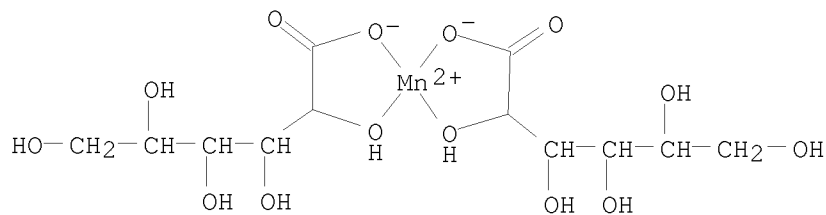
L2 16 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
IN 3,5,9-Trioxa-4-phosphaheptacosan-1-aminium, 4-hydroxy-N,N,N-trimethyl-10-oxo-7-[(1-oxooctadecyl)oxy]-, inner salt, 4-oxide, (7R)-
MF C44 H88 N O8 P
CI COM

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L2 16 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
IN Manganese, bis(D-gluconato-κO1,κO2)-, (T-4)-
MF C12 H22 Mn O14
CI CCS, COM



L2 16 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
IN Zinc

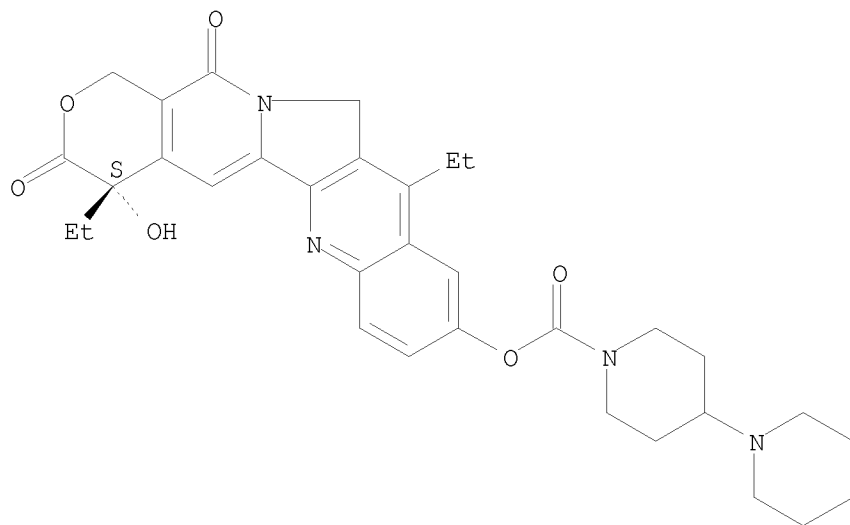
MF Zn
CI COM

Zn

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L2 16 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
IN [1,4'-Bipiperidine]-1'-carboxylic acid, (4S)-4,11-diethyl-3,4,12,14-tetrahydro-4-hydroxy-3,14-dioxo-1H-pyrano[3',4':6,7]indolizino[1,2-b]quinolin-9-yl ester
MF C33 H38 N4 O6
CI COM

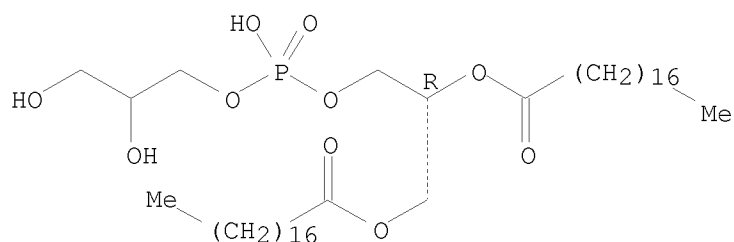
Absolute stereochemistry. Rotation (+).



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

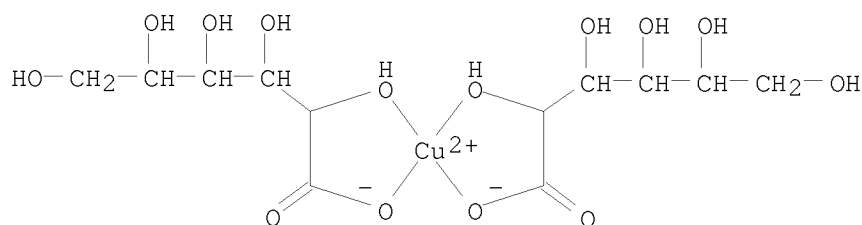
L2 16 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
IN Octadecanoic acid, (1R)-1-[[[(2,3-dihydroxypropoxy)hydroxyphosphinyl]oxy]methyl]-1,2-ethanediyl ester
MF C42 H83 O10 P
CI COM

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L2 16 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
 IN Copper, bis(D-gluconato- κ O1, κ O2)-
 MF C12 H22 Cu O14
 CI CCS, COM



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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=> file caplus biosis embase medline scisearch
 COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
0.92	3.82

FULL ESTIMATED COST

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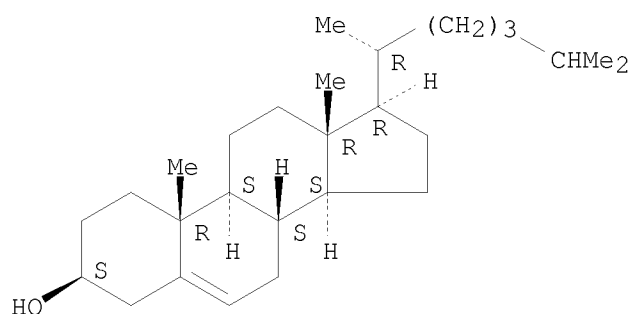
FILE 'SCISEARCH' ENTERED AT 14:58:32 ON 07 JUL 2008
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=> s l2
 L3 1567193 L2

=> s l3 and ("lactone ring")
 L4 329 L3 AND ("LACTONE RING")
 => s l4 and ("transition metal")
 L5 4 L4 AND ("TRANSITION METAL")
 => d l5 1-4 hitstr ibib all

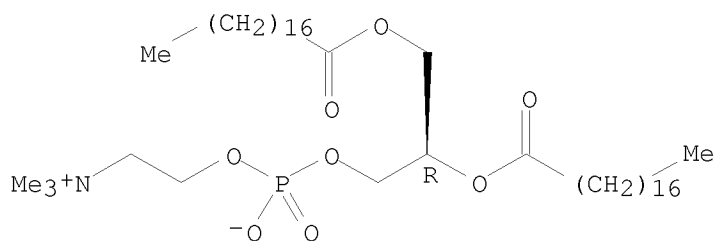
L5 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2008 ACS on STN
 IT 57-88-5, Cholesterol, biological studies 816-94-4
 RL: PEP (Physical, engineering or chemical process); PRP (Properties); THU
 (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
 (transition metal-mediated liposomal encapsulation
 of irinotecan stabilizes the drug in therapeutically active lactone
 conformation)
 RN 57-88-5 CAPLUS
 CN Cholest-5-en-3-ol (3 β)- (CA INDEX NAME)

Absolute stereochemistry.



RN 816-94-4 CAPLUS
 CN 3,5,9-Trioxa-4-phosphaheptacosan-1-aminium, 4-hydroxy-N,N,N-trimethyl-10-oxo-7-[(1-oxooctadecyl)oxy]-, inner salt, 4-oxide, (7R)- (CA INDEX NAME)

Absolute stereochemistry.



ACCESSION NUMBER: 2006:1265519 CAPLUS
 DOCUMENT NUMBER: 146:107117
 TITLE: Transition Metal-Mediated
 Liposomal Encapsulation of Irinotecan (CPT-11)
 Stabilizes the Drug in the Therapeutically Active
 Lactone Conformation
 AUTHOR(S): Ramsay, Euan; Alnajim, Jehan; Anantha, Malathi;
 Taggar, Aman; Thomas, Anitha; Edwards, Katarina;
 Karlsson, Goeran; Webb, Murray; Bally, Marcel
 CORPORATE SOURCE: Department of Advanced Therapeutics, BC Cancer Agency,
 Vancouver, BC, V5Z 1L3, Can.
 SOURCE: Pharmaceutical Research (2006), 23(12), 2799-2808

CODEN: PHREEB; ISSN: 0724-8741

PUBLISHER: Springer
DOCUMENT TYPE: Journal
LANGUAGE: English

AN 2006:1265519 CAPLUS

DN 146:107117

ED Entered STN: 05 Dec 2006

TI Transition Metal-Mediated Liposomal Encapsulation of
Irinotecan (CPT-11) Stabilizes the Drug in the Therapeutically Active
Lactone Conformation

AU Ramsay, Euan; Alnajim, Jehan; Anantha, Malathi; Taggar, Aman; Thomas,
Anitha; Edwards, Katarina; Karlsson, Goeran; Webb, Murray; Bally, Marcel
CS Department of Advanced Therapeutics, BC Cancer Agency, Vancouver, BC, V5Z
1L3, Can.

SO Pharmaceutical Research (2006), 23(12), 2799-2808

CODEN: PHREEB; ISSN: 0724-8741

PB Springer

DT Journal

LA English

CC 63-5 (Pharmaceuticals)

AB To determine whether entrapped transition metals could
mediate the active encapsulation of the anticancer drug irinotecan into
preformed liposomes. Further, to establish that metal complexation could
stabilize liposomal irinotecan in the therapeutically active lactone
conformation. Irinotecan was added to preformed 1,2-distearoyl-sn-glycero-
phosphocholine/cholesterol liposomes prepared in CuSO₄, ZnSO₄, MnSO₄, or
CoSO₄ solns., and drug encapsulation was determined over time. The roles of
the transmembrane pH gradient and internal pH were evaluated. TLC and
HPLC were used to monitor drug stability and liposome morphol. was
assessed by cryo-TEM. Irinotecan was rapidly and efficiently loaded into
preformed liposomes prepared in unbuffered (.apprx.pH 3.5) 300 mM CuSO₄ or
ZnSO₄. For Cu-containing liposomes, results suggested that irinotecan loading
occurred when the interior pH and the exterior pH were matched; however,
addition of nigericin to collapse any residual transmembrane pH gradient
inhibited irinotecan loading. Greater than 90% of the encapsulated drug
was in its active lactone form and cryo-TEM anal. indicated dark
intravesicular electron-dense spots. Irinotecan is stably entrapped in
the active lactone conformation within preformed copper-containing liposomes
as a result of metal-drug complexation.

ST transition metal liposome encapsulation irinotecan
lactone conformation antitumor

IT Conformation

(lactone ring; transition metal
-mediated liposomal encapsulation of irinotecan stabilizes the drug in
therapeutically active lactone conformation)

IT Pharmaceutical liposomes

(large unilamellar liposomes; transition metal
-mediated liposomal encapsulation of irinotecan stabilizes the drug in
therapeutically active lactone conformation)

IT Complexation

(metal; transition metal-mediated liposomal
encapsulation of irinotecan stabilizes the drug in therapeutically
active lactone conformation)

IT Encapsulation

(microencapsulation; transition metal-mediated
liposomal encapsulation of irinotecan stabilizes the drug in
therapeutically active lactone conformation)

IT Antitumor agents

Stability

pH

(transition metal-mediated liposomal encapsulation

of irinotecan stabilizes the drug in therapeutically active lactone conformation)

IT Coordination compounds
Transition metals, biological studies
RL: PEP (Physical, engineering or chemical process); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
(transition metal-mediated liposomal encapsulation of irinotecan stabilizes the drug in therapeutically active lactone conformation)

IT 28380-24-7, Nigericin
RL: PEP (Physical, engineering or chemical process); PROC (Process)
(transition metal-mediated liposomal encapsulation of irinotecan stabilizes the drug in therapeutically active lactone conformation)

IT 57-88-5, Cholesterol, biological studies 816-94-4
7733-02-0, Zinc sulfate 7758-98-7, Copper sulfate, biological studies
7785-87-7, Manganese sulfate 10124-43-3, Cobalt sulfate 100286-90-6, Camptosar
RL: PEP (Physical, engineering or chemical process); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
(transition metal-mediated liposomal encapsulation of irinotecan stabilizes the drug in therapeutically active lactone conformation)

RE.CNT 36 THERE ARE 36 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE

- (1) Abraham, S; Biochim Biophys Acta 2002, V1565, P41 CAPLUS
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L5 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2008 ACS on STN

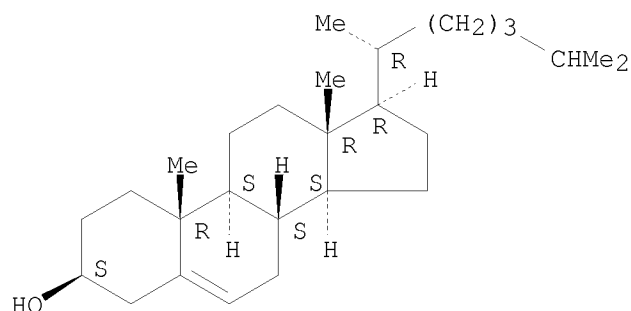
IT 57-88-5, Cholesterol, biological studies 527-09-3,
Copper gluconate 816-94-4, DSPC 2644-64-6, DPPC
4468-02-4, Zinc gluconate 6485-39-8, Manganese gluconate
7440-48-4D, Cobalt, salts 7440-50-8D, Copper, salts
7440-66-6D, Zinc, salts 7689-03-4, Camptothecin
12619-70-4, Cyclodextrins 97682-44-5, Irinotecan
123948-87-8, Topotecan 149882-10-0, Lurtotecan
217939-97-4, DSPG 773073-40-8

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(pharmaceutical compns. containing active agents having lactone group and
transition metal ions)

RN 57-88-5 CAPLUS

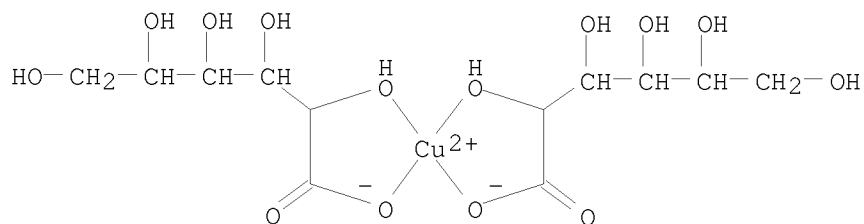
CN Cholest-5-en-3-ol (3 β)- (CA INDEX NAME)

Absolute stereochemistry.



RN 527-09-3 CAPLUS

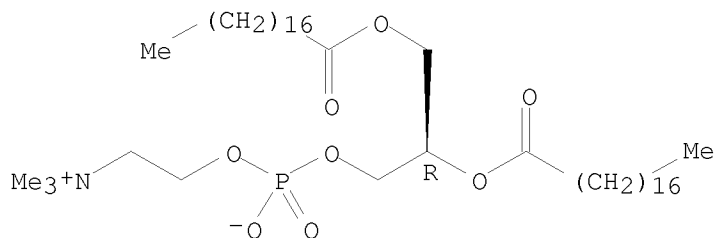
CN Copper, bis(D-gluconato- κ O1, κ O2)- (CA INDEX NAME)



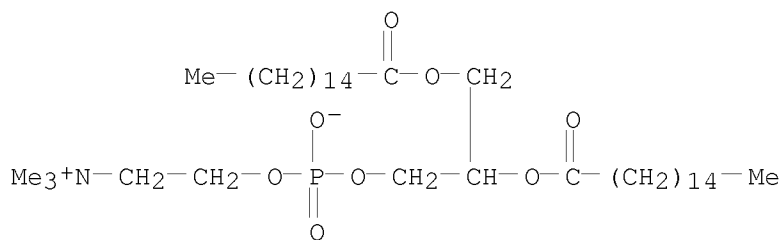
RN 816-94-4 CAPLUS

CN 3,5,9-Trioxa-4-phosphaheptacosan-1-aminium, 4-hydroxy-N,N,N-trimethyl-10-oxo-7-[(1-oxooctadecyl)oxy]-, inner salt, 4-oxide, (7R)- (CA INDEX NAME)

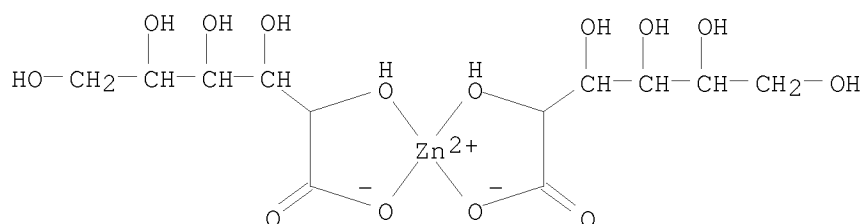
Absolute stereochemistry.



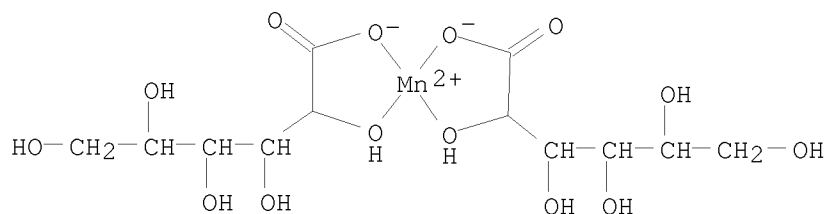
CN 3,5,9-Trioxa-4-phosphapentacosan-1-aminium, 4-hydroxy-N,N,N-trimethyl-10-oxo-7-[(1-oxohexadecyl)oxy]-, inner salt, 4-oxide (CA INDEX NAME)



CN Zinc, bis(D-gluconato-κO1,κO2)-, (T-4)- (CA INDEX NAME)



CN Manganese, bis(D-gluconato-κO1,κO2)-, (T-4)- (CA INDEX NAME)



CN Cobalt (CA INDEX NAME)

Co

CN Copper (CA INDEX NAME)

Cu

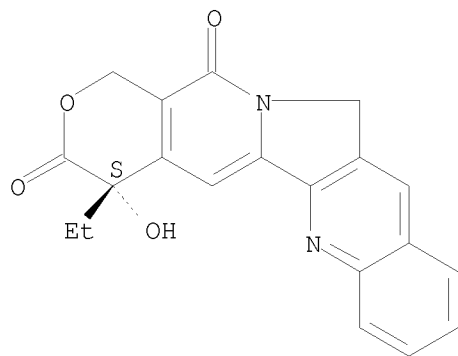
CN Zinc (CA INDEX NAME)

Zn

RN 7689-03-4 CAPLUS

CN 1H-Pyrano[3',4':6,7]indolizino[1,2-b]quinoline-3,14(4H,12H)-dione,
4-ethyl-4-hydroxy-, (4S)- (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



RN 12619-70-4 CAPLUS

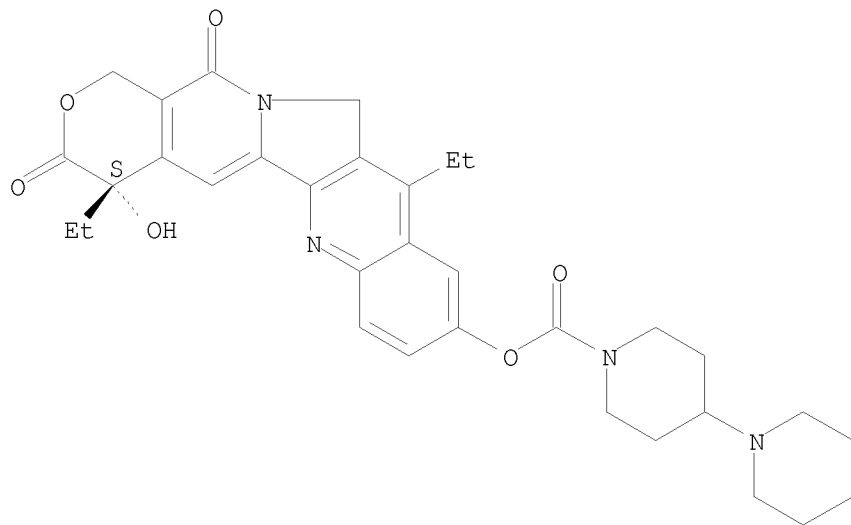
CN Cyclodextrin (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 97682-44-5 CAPLUS

CN [1,4'-Bipiperidine]-1'-carboxylic acid, (4S)-4,11-diethyl-3,4,12,14-tetrahydro-4-hydroxy-3,14-dioxo-1H-pyrano[3',4':6,7]indolizino[1,2-b]quinolin-9-yl ester (CA INDEX NAME)

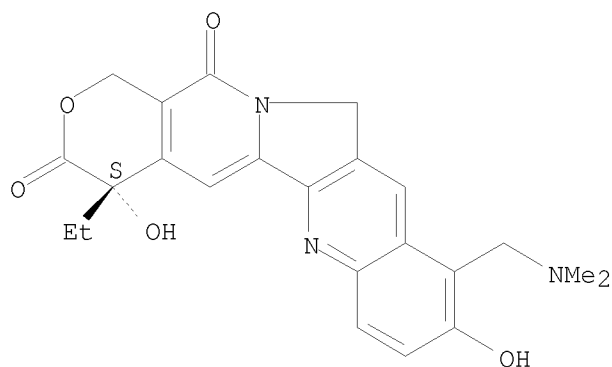
Absolute stereochemistry. Rotation (+).



RN 123948-87-8 CAPLUS

CN 1H-Pyrano[3',4':6,7]indolizino[1,2-b]quinoline-3,14(4H,12H)-dione,
10-[(dimethylamino)methyl]-4-ethyl-4,9-dihydroxy-, (4S)- (CA INDEX NAME)

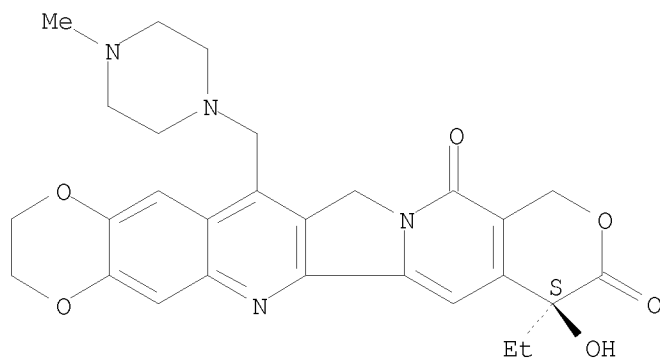
Absolute stereochemistry.



RN 149882-10-0 CAPLUS

CN 11H-1,4-Dioxino[2,3-g]pyrano[3',4':6,7]indolizino[1,2-b]quinoline-9,12(8H,14H)-dione, 8-ethyl-2,3-dihydro-8-hydroxy-15-[(4-methyl-1-piperazinyl)methyl]-, (8S)- (CA INDEX NAME)

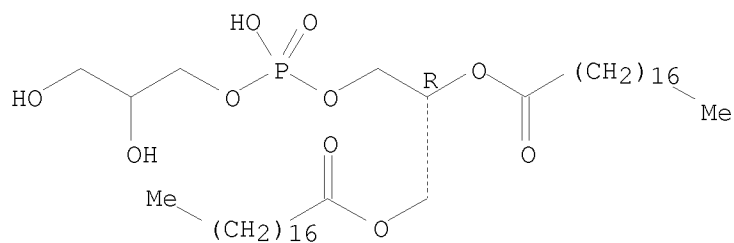
Absolute stereochemistry. Rotation (+).



RN 217939-97-4 CAPLUS

CN Octadecanoic acid, (1R)-1-[[[(2,3-dihydroxypropoxy)hydroxyphosphinyl]oxy]methyl]-1,2-ethanediyl ester (CA INDEX NAME)

Absolute stereochemistry.



RN 773073-40-8 CAPLUS

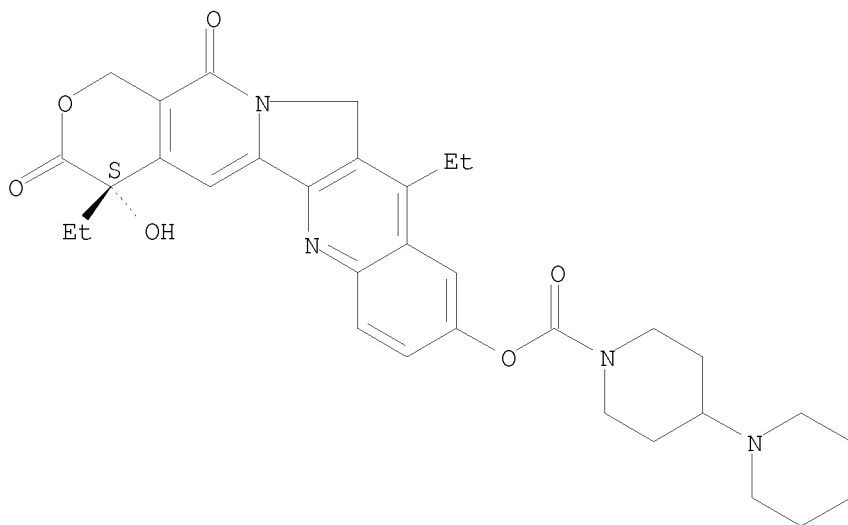
CN Uridine, 2'-deoxy-5-fluoro-, mixt. with (4S)-4,11-diethyl-3,4,12,14-tetrahydro-4-hydroxy-3,14-dioxo-1H-pyrano[3',4':6,7]indolizino[1,2-b]quinolin-9-yl [1,4'-bipiperidine]-1'-carboxylate (CA INDEX NAME)

CM 1

CRN 97682-44-5

CMF C33 H38 N4 O6

Absolute stereochemistry. Rotation (+).

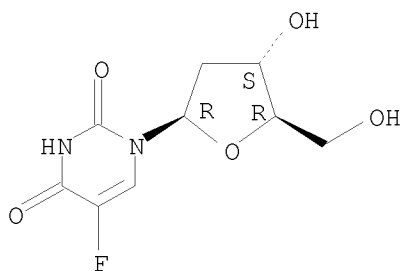


CM 2

CRN 50-91-9

CMF C9 H11 F N2 O5

Absolute stereochemistry.



ACCESSION NUMBER: 2004:857361 CAPLUS
DOCUMENT NUMBER: 141:337749
TITLE: Pharmaceutical compositions containing active agents
having a lactone group and transition
metal ions
INVENTOR(S): Tardi, Paul
PATENT ASSIGNEE(S): Celator Technologies, Inc., Can.
SOURCE: PCT Int. Appl., 39 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004087104	A1	20041014	WO 2004-CA505	20040402

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

CA 2527130 A1 20041014 CA 2004-2527130 20040402
 EP 1608338 A1 20051228 EP 2004-725256 20040402

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR

US 20060193902 A1 20060831 US 2005-551572 20050929

PRIORITY APPLN. INFO.: US 2003-460171P P 20030402
 WO 2004-CA505 W 20040402

AN 2004:857361 CAPLUS
 DN 141:337749
 ED Entered STN: 18 Oct 2004
 TI Pharmaceutical compositions containing active agents having a lactone group and transition metal ions
 IN Tardi, Paul
 PA Celator Technologies, Inc., Can.
 SO PCT Int. Appl., 39 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 IC ICM A61K009-127
 ICS A61K009-51; A61K031-4745; A61K031-7072; A61K047-02
 CC 63-6 (Pharmaceuticals)
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004087104	A1	20041014	WO 2004-CA505	20040402
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2527130	A1	20041014	CA 2004-2527130	20040402
EP 1608338	A1	20051228	EP 2004-725256	20040402
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR				
US 20060193902	A1	20060831	US 2005-551572	20050929
PRAI US 2003-460171P	P	20030402		
WO 2004-CA505	W	20040402		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 2004087104	ICM	A61K009-127
	ICS	A61K009-51; A61K031-4745; A61K031-7072; A61K047-02
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A61K0031-7072 [ICS,7]; A61K0031-7042 [ICS,7,C*];
 A61K0047-02 [ICS,7]
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 A61K0031-7072 [I,A]; A61K0033-34 [I,C*]; A61K0033-34
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 CA 2527130 IPCI A61K0009-127 [I,A]; A61K0009-51 [I,A]; A61K0031-4745
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 A61K031/7072+M; A61K033/34+M; A61K047/02
 US 20060193902 IPCI A61K0031-4745 [I,A]; A61K0031-4738 [I,C*]; A61K0009-127
 [I,A]
 NCL 424/450.000; 514/283.000; 977/907.000
 ECLA A61K009/00; A61K031/4745
 AB Compns. and methods for stabilizing an active agent containing one or more
 acetone rings are disclosed. The compns., including pharmaceutical
 compns., ensure that the lactone ring of the active
 agent is stabilized in the active, ring-closed form due to the inclusion
 of a transition metal ion. Copper, zinc and manganese
 gluconate was used to encapsulate irinotecan into liposomes.
 ST pharmaceutical liposome lactone transition metal
 complex stability; copper zinc manganese gluconate irinotecan liposome
 IT Drug delivery systems
 (emulsions; pharmaceutical compns. containing active agents having lactone
 group and transition metal ions)
 IT Micelles
 (lipid, for drug delivery; pharmaceutical compns. containing active agents
 having lactone group and transition metal ions)
 IT Drug delivery systems
 (liposomes, injections; pharmaceutical compns. containing active agents
 having lactone group and transition metal ions)
 IT Drug delivery systems
 (microparticles, polymer; pharmaceutical compns. containing active agents
 having lactone group and transition metal ions)
 IT Drug delivery systems
 (nanoparticles, polymer; pharmaceutical compns. containing active agents
 having lactone group and transition metal ions)
 IT Stability
 (pharmaceutical compns. containing active agents having lactone group and
 transition metal ions)
 IT Lactones
 RL: PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES
 (Uses)

(pharmaceutical compns. containing active agents having lactone group and transition metal ions)

IT Liposomes
(unilamellar; pharmaceutical compns. containing active agents having lactone group and transition metal ions)

IT Transition metal complexes
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(with the active agent; pharmaceutical compns. containing active agents having lactone group and transition metal ions)

IT 57-88-5, Cholesterol, biological studies 527-09-3, Copper gluconate 816-94-4, DSPC 2644-64-6, DPPC 4468-02-4, Zinc gluconate 6485-39-8, Manganese gluconate 7440-48-4D, Cobalt, salts 7440-50-8D, Copper, salts 7440-66-6D, Zinc, salts 7689-03-4, Camptothecin 12619-70-4, Cyclodextrins 97682-44-5, Irinotecan 123948-87-8, Topotecan 149882-10-0, Lurtotecan 217939-97-4, DSPG 773073-40-8
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(pharmaceutical compns. containing active agents having lactone group and transition metal ions)

RE.CNT 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

- (1) Giovannella, B; US 20020131997 A1 2002
- (2) Henderson, R; US 5364845 A 1994 CAPLUS
- (3) Hertzberg, R; BIOCHEMISTRY 1989, V28(11), P4629 CAPLUS
- (4) Kostova, I; ARCHIV DER PHARMAZIE (WEINHEIM) 2001, V344(5), P157
- (5) Kostova, I; EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY 1999, V34(1), P63 CAPLUS
- (6) Kuwahara, J; BIOCHEMISTRY 1986, V25(6), P1216 CAPLUS
- (7) Kuwahara, J; NUCLEIC ACIDS SYMPOSIUM SERIES 1985, 16, P201 MEDLINE
- (8) Manolov, I; EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY 1999, V34(10), P853 CAPLUS
- (9) Pearson, D; US 20020061870 A1 2002
- (10) Shew, C; WO 03028696 A 2003 CAPLUS
- (11) Tenovuo, J; JOURNAL OF ORAL REHABILITATION 1997, V24(5), P325 CAPLUS
- (12) Webb, M; WO 0185131 A 2001 CAPLUS
- (13) Webb, M; WO 03028697 A 2003 CAPLUS

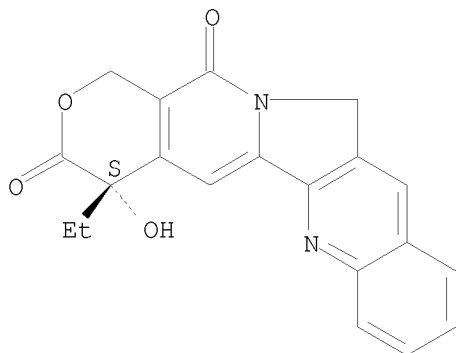
L5 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2008 ACS on STN

IT 7689-03-4P, 20(S)-Camptothecin
RL: IMF (Industrial manufacture); PUR (Purification or recovery); SPN (Synthetic preparation); PREP (Preparation)
(process for purifying 20(S)-camptothecin via palladium catalyzed hydrogenation)

RN 7689-03-4 CAPLUS

CN 1H-Pyrano[3',4':6,7]indolizino[1,2-b]quinoline-3,14(4H,12H)-dione, 4-ethyl-4-hydroxy-, (4S)- (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



ACCESSION NUMBER: 2002:616406 CAPLUS
 DOCUMENT NUMBER: 137:155091
 TITLE: Process for purifying 20(S)-camptothecin via catalytic hydrogenation
 INVENTOR(S): Sobotta, Rainer; Rapp, Armin
 PATENT ASSIGNEE(S): Germany
 SOURCE: U.S. Pat. Appl. Publ., 5 pp.
 CODEN: USXXCO
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20020111489	A1	20020815	US 2002-51707	20020117
US 6476225	B2	20021105		
DE 10106969	C1	20021002	DE 2001-10106969	20010215
CA 2435372	A1	20020822	CA 2002-2435372	20020209
WO 2002064597	A2	20020822	WO 2002-EP1375	20020209
WO 2002064597	A3	20021024		
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RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2002244711	A1	20020828	AU 2002-244711	20020209
AU 2002244711	B2	20070531		
EP 1362051	A2	20031119	EP 2002-712902	20020209
EP 1362051	B1	20050803		
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EE 200300389	A	20031215	EE 2003-389	20020209
HU 2003003030	A2	20031229	HU 2003-3030	20020209
HU 2003003030	A3	20041129		
CN 1491228	A	20040421	CN 2002-804991	20020209
BR 2002007261	A	20040615	BR 2002-7261	20020209
JP 2004521909	T	20040722	JP 2002-564528	20020209
AT 301124	T	20050815	AT 2002-712902	20020209
ES 2246389	T3	20060216	ES 2002-712902	20020209
NZ 528039	A	20060224	NZ 2002-528039	20020209
ZA 2003005364	A	20040428	ZA 2003-5364	20030711

IN 2003DN01197	A	20050225	IN 2003-DN1197	20030730
BG 108064	A	20050430	BG 2003-108064	20030806
MX 2003PA07194	A	20031204	MX 2003-PA7194	20030812
KR 813087	B1	20080317	KR 2003-710605	20030812
NO 2003003614	A	20030814	NO 2003-3614	20030814
HK 1064092	A1	20060203	HK 2004-106806	20040908

PRIORITY APPLN. INFO.:

DE 2001-10106969	A	20010215
US 2001-274354P	P	20010308
WO 2002-EP1375	W	20020209

OTHER SOURCE(S): CASREACT 137:155091; MARPAT 137:155091

AN 2002:616406 CAPLUS

DN 137:155091

ED Entered STN: 16 Aug 2002

TI Process for purifying 20(S)-camptothecin via catalytic hydrogenation

IN Sobotta, Rainer; Rapp, Armin

PA Germany

SO U.S. Pat. Appl. Publ., 5 pp.

CODEN: USXXCO

DT Patent

LA English

IC ICM C07D491-14

INCL 546048000

CC 31-5 (Alkaloids)

Section cross-reference(s): 11

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 20020111489	A1	20020815	US 2002-51707	20020117
	US 6476225	B2	20021105		
	DE 10106969	C1	20021002	DE 2001-10106969	20010215
	CA 2435372	A1	20020822	CA 2002-2435372	20020209
	WO 2002064597	A2	20020822	WO 2002-EP1375	20020209
	WO 2002064597	A3	20021024		
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	AU 2002244711	B2	20070531		
	EP 1362051	A2	20031119	EP 2002-712902	20020209
	EP 1362051	B1	20050803		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
	EE 200300389	A	20031215	EE 2003-389	20020209
	HU 2003003030	A2	20031229	HU 2003-3030	20020209
	HU 2003003030	A3	20041129		
	CN 1491228	A	20040421	CN 2002-804991	20020209
	BR 2002007261	A	20040615	BR 2002-7261	20020209
	JP 2004521909	T	20040722	JP 2002-564528	20020209
	AT 301124	T	20050815	AT 2002-712902	20020209
	ES 2246389	T3	20060216	ES 2002-712902	20020209
	NZ 528039	A	20060224	NZ 2002-528039	20020209
	ZA 2003005364	A	20040428	ZA 2003-5364	20030711
	IN 2003DN01197	A	20050225	IN 2003-DN1197	20030730
	BG 108064	A	20050430	BG 2003-108064	20030806
	MX 2003PA07194	A	20031204	MX 2003-PA7194	20030812

	KR 813087	B1	20080317	KR 2003-710605	20030812
	NO 2003003614	A	20030814	NO 2003-3614	20030814
	HK 1064092	A1	20060203	HK 2004-106806	20040908
PRAI	DE 2001-10106969	A	20010215		
	US 2001-274354P	P	20010308		
	WO 2002-EP1375	W	20020209		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
US 20020111489	ICM	C07D491-14
	INCL	546048000
	IPCI	C07D0491-14 [ICM, 7]; C07D0491-00 [ICM, 7, C*]
	IPCR	C07D0491-00 [I, C*]; C07D0491-14 [I, A]; C07D0491-22 [I, A]
	NCL	546/048.000
	ECLA	C07D491/14+221C+221B+209C; C07D491/22+311B+221C+221B+209C
DE 10106969	IPCI	C07D0491-22 [ICM, 7]; C07D0491-00 [ICM, 7, C*]
	IPCR	B01D0009-00 [I, C*]; B01D0009-02 [I, A]; C07D0491-00 [I, C*]; C07D0491-14 [I, A]; C07D0491-22 [I, A]
	ECLA	C07D491/14+221C+221B+209C; C07D491/22+311B+221C+221B+209C
CA 2435372	IPCI	C07D0491-04 [ICM, 7]; C07D0491-00 [ICM, 7, C*]
	IPCR	B01D0009-00 [I, C*]; B01D0009-02 [I, A]; C07D0491-00 [I, C*]; C07D0491-14 [I, A]; C07D0491-22 [I, A]
WO 2002064597	IPCI	C07D0491-04 [ICM, 7]; C07D0491-00 [ICM, 7, C*]
	IPCR	B01D0009-00 [I, C*]; B01D0009-02 [I, A]; C07D0491-00 [I, C*]; C07D0491-14 [I, A]; C07D0491-22 [I, A]
	ECLA	C07D491/14+221C+221B+209C; C07D491/22+311B+221C+221B+209C
AU 2002244711	IPCI	C07D0491-00 [I, C*]; C07D0491-14 [I, A]; B01D0009-00 [I, C*]; B01D0009-02 [I, A]; C07D0491-22 [I, A]
	IPCR	C07D0491-00 [I, C*]; C07D0491-14 [I, A]; B01D0009-00 [I, C*]; B01D0009-02 [I, A]; C07D0491-22 [I, A]
	ECLA	C07D491/14+221C+221B+209C; C07D491/22+311B+221C+221B+209C
EP 1362051	IPCI	C07D0491-04 [ICM, 7]; C07D0491-00 [ICM, 7, C*]
	IPCR	B01D0009-00 [I, C*]; B01D0009-02 [I, A]; C07D0491-00 [I, C*]; C07D0491-14 [I, A]; C07D0491-22 [I, A]
	ECLA	C07D491/14+221C+221B+209C; C07D491/22+311B+221C+221B+209C
EE 200300389	IPCI	C07D0491-04 [ICM, 7]; C07D0491-00 [ICM, 7, C*]
	IPCR	B01D0009-00 [I, C*]; B01D0009-02 [I, A]; C07D0491-00 [I, C*]; C07D0491-14 [I, A]; C07D0491-22 [I, A]
	ECLA	C07D491/14+221C+221B+209C; C07D491/22+311B+221C+221B+209C
HU 2003003030	IPCI	C07D0491-04 [ICM, 7]; C07D0491-00 [ICM, 7, C*]
	IPCR	B01D0009-00 [I, C*]; B01D0009-02 [I, A]; C07D0491-00 [I, C*]; C07D0491-14 [I, A]; C07D0491-22 [I, A]
	ECLA	C07D491/14+221C+221B+209C; C07D491/22+311B+221C+221B+209C
CN 1491228	IPCI	C07D0491-04 [ICM, 7]; C07D0491-00 [ICM, 7, C*]
	IPCR	B01D0009-00 [I, C*]; B01D0009-02 [I, A]; C07D0491-00 [I, C*]; C07D0491-14 [I, A]; C07D0491-22 [I, A]
	ECLA	C07D491/14+221C+221B+209C; C07D491/22+311B+221C+221B+209C
BR 2002007261	IPCI	C07D0491-04 [ICM, 7]; C07D0491-00 [ICM, 7, C*]
	IPCR	B01D0009-00 [I, C*]; B01D0009-02 [I, A]; C07D0491-00 [I, C*]; C07D0491-14 [I, A]; C07D0491-22 [I, A]
JP 2004521909	IPCI	C07D0491-22 [ICM, 7]; C07D0491-00 [ICM, 7, C*]; B01D0009-02 [ICS, 7]; B01D0009-00 [ICS, 7, C*]

	IPCR	C07D0491-00 [I,C*]; C07D0491-14 [I,A]; C07D0491-22 [I,A]
	FTERM	4C050/AA01; 4C050/AA07; 4C050/BB04; 4C050/CC07; 4C050/DD02; 4C050/EE02; 4C050/FF02; 4C050/GG03; 4C050/HH01
AT 301124	IPCI	C07D0491-04 [ICM,7]; C07D0491-00 [ICM,7,C*]
	ECLA	C07D491/14+221C+221B+209C; C07D491/22+311B+221C+221B+209C
ES 2246389	IPCI	C07D0491-04 [ICS,4]; C07D0491-00 [ICS,4,C*]
	IPCR	B01D0009-00 [I,C*]; B01D0009-02 [I,A]; C07D0491-00 [I,C*]; C07D0491-14 [I,A]; C07D0491-22 [I,A]
	ECLA	C07D491/14+221C+221B+209C; C07D491/22+311B+221C+221B+209C
NZ 528039	IPCI	C07D0491-04 [ICS,7]; C07D0491-00 [ICS,7,C*]; C07C0007-163 [ICS,7]; C07C0007-17 [ICS,7]; C07C0007-00 [ICS,7,C*]
	IPCR	B01D0009-00 [I,C*]; B01D0009-02 [I,A]; C07D0491-00 [I,C*]; C07D0491-14 [I,A]; C07D0491-22 [I,A]
	ECLA	C07D491/14+221C+221B+209C; C07D491/22+311B+221C+221B+209C
ZA 2003005364	IPCI	C07D [ICM,7]
IN 2003DN01197	IPCI	C07D0491-04 [ICM,7]; C07D0491-00 [ICM,7,C*]
BG 108064	IPCI	C07D0491-04 [ICM,7]; C07D0491-00 [ICM,7,C*]
	IPCR	C07D0491-00 [I,C*]; C07D0491-14 [I,A]; C07D0491-22 [I,A]
MX 2003PA07194	IPCI	C07D0491-04 [ICM,7]; C07D0491-00 [ICM,7,C*]
KR 813087	IPCI	C07D0491-052 [I,A]; C07D0491-00 [I,C*]
NO 2003003614	IPCI	C07D [ICM,7]
	IPCR	B01D0009-00 [I,C*]; B01D0009-02 [I,A]; C07D0491-00 [I,C*]; C07D0491-14 [I,A]; C07D0491-22 [I,A]
HK 1064092	IPCI	C07D [ICS,7]
	IPCR	B01D0009-00 [I,C*]; B01D0009-02 [I,A]; C07D0491-00 [I,C*]; C07D0491-14 [I,A]; C07D0491-22 [I,A]
	ECLA	C07D491/14+221C+221B+209C; C07D491/22+311B+221C+221B+209C
OS	CASREACT	137:155091; MARPAT 137:155091
AB	A process for purifying 20(S)-camptothecin, comprising the following steps: (a) combining an aqueous base and a starting material containing 20(S)-camptothecin to convert the lactone ring of the 20(S)-camptothecin into a carboxylate salt; (b) hydrogenating to the product of step (a) in the presence of a transition metal catalyst; (c) acidifying the aqueous phase of the product of step (b) to form 20(S)-camptothecin crystals; (d) adding at least one polar aprotic solvent to the product of step (c); and (e) separating off the purified 20(S)-camptothecin crystals. Thus, a crude extract obtained from Nothapodytes foetida containing camptothecin, 1.33% 18-dehydrocamptothecin, and 0.47% 9-methoxycamptothecin was taken up in a 2N NaOH soln and hydrogenated using Pd/C for 8 h. The hydrogenated mixture was treated with concentrated HCl and adjusted to a pH of 4.0-4.5 and then combined with DMF and stirred for 2.5 h at 90-100°, slowly the resulting mixture was cooled to rt and filtered. The 20(S)-camptothecin crystals, obtained were washed with MeOH and contained 94.2% of the 20(S)-camptothecin input with <0.05% of 18-dehydrocamptothecin and 0.11% of 9-methoxycamptothecin. A similar sequence which used 10% H2SO4 instead of concentrated HCl resulted in 92.6% of 20(S)-camptothecin input with 0.09% of 9-methoxycamptothecin and no detectable 18-dehydrocamptothecin.	
ST	camptothecin purifn hydrogenation palladium catalyst	
IT	Hydrogenation (process for purifying 20(S)-camptothecin via palladium catalyzed hydrogenation)	
IT	7440-05-3, Palladium, uses	

RL: CAT (Catalyst use); USES (Uses)
 (process for purifying 20(S)-camptothecin via palladium catalyzed hydrogenation)

IT 7689-03-4P, 20(S)-Camptothecin
 RL: IMF (Industrial manufacture); PUR (Purification or recovery); SPN (Synthetic preparation); PREP (Preparation)
 (process for purifying 20(S)-camptothecin via palladium catalyzed hydrogenation)

IT 68-12-2, N,N-Dimethylformamide, uses 80-73-9, 1,3-Dimethylethyleneurea
 127-19-5, N,N-Dimethylacetamide 872-50-4, N-Methylpyrrolidone, uses 7226-23-5, 1,3-Dimethylpropyleneurea
 RL: NUU (Other use, unclassified); USES (Uses)
 (process for purifying 20(S)-camptothecin via palladium catalyzed hydrogenation)

IT 39026-92-1, 9-Methoxycamptothecin
 RL: OCU (Occurrence, unclassified); OCCU (Occurrence)
 (process for purifying 20(S)-camptothecin via palladium catalyzed hydrogenation)

IT 119403-33-7, 18-Dehydrocamptothecin
 RL: OCU (Occurrence, unclassified); RCT (Reactant); OCCU (Occurrence); RACT (Reactant or reagent)
 (process for purifying 20(S)-camptothecin via palladium catalyzed hydrogenation)

IT 64-19-7, Acetic acid, reactions 76-05-1, Trifluoroacetic acid, reactions 1310-73-2, Sodium hydroxide, reactions 7647-01-0, Hydrochloric acid, reactions 7664-38-2, Phosphoric acid, reactions 7664-93-9, Sulfuric acid, reactions 7697-37-2, Nitric acid, reactions 10034-85-2, Hydroiodic acid 10035-10-6, Hydrobromic acid, reactions
 RL: RGT (Reagent); RACT (Reactant or reagent)
 (process for purifying 20(S)-camptothecin via palladium catalyzed hydrogenation)

L5 ANSWER 4 OF 4 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on STN

ACCESSION NUMBER: 2001:56734 BIOSIS

DOCUMENT NUMBER: PREV200100056734

TITLE: Transannular vs intramolecular insertion reactions of transition metal carbenes: Evaluation of a transannular approach to cyclooctane ring synthesis.

AUTHOR(S): Dudones, James D.; Sampson, Paul [Reprint author]

CORPORATE SOURCE: Department of Chemistry, Kent State University, Kent, OH, 44242, USA
 psampson@kent.edu

SOURCE: Tetrahedron, (1 December, 2000) Vol. 56, No. 49, pp. 9555-9567. print.

CODEN: TETRAB. ISSN: 0040-4020.

DOCUMENT TYPE: Article

LANGUAGE: English

ENTRY DATE: Entered STN: 24 Jan 2001

Last Updated on STN: 12 Feb 2002

AN 2001:56734 BIOSIS

DN PREV200100056734

TI Transannular vs intramolecular insertion reactions of transition metal carbenes: Evaluation of a transannular approach to cyclooctane ring synthesis.

AU Dudones, James D.; Sampson, Paul [Reprint author]

CS Department of Chemistry, Kent State University, Kent, OH, 44242, USA
 psampson@kent.edu

SO Tetrahedron, (1 December, 2000) Vol. 56, No. 49, pp. 9555-9567. print.
 CODEN: TETRAB. ISSN: 0040-4020.

DT Article

LA English

ED Entered STN: 24 Jan 2001
 Last Updated on STN: 12 Feb 2002

AB The efficacy of closing cyclooctane rings via transannular metal-stabilized carbene insertion reactions within an 11-membered macrocyclic lactone ring was explored. The impact of performing these reactions in a transannular fashion was evaluated via a comparative study of closely analogous intramolecular (but not transannular) processes. Closure of a gamma-lactone ring via intramolecular cyclopropanation on a moderately electron-deficient alkene proceeded in good yield under Cu(acac)₂ catalysis, whereas analogous transannular cyclopropanation was thwarted by competitive beta-hydride migration. In contrast, use of a more electron-rich methoxy-substituted alkene resulted in successful transannular cyclopropanation to afford the desired cyclooctane ring-containing product.

CC Pharmacology - General 22002
 Biochemistry studies - Minerals 10069
 Pathology - Therapy 12512

IT Major Concepts
 Methods and Techniques; Pharmacology

IT Chemicals & Biochemicals
 11-membered macrocyclic lactone ring; alkene:
 electron-rich, methoxy-substituted; beta-hydride: competitive,
 migration; copper; cyclooctane ring; electron-deficient alkene; gamma-
 lactone ring; transition metal
 carbenes

IT Methods & Equipment
 copper-based catalysis: synthetic method; cyclooctane ring synthesis:
 synthetic method; intramolecular cyclopropanation: synthetic method;
 intramolecular insertion reactions: synthetic method; transannular
 cyclopropanation: synthetic method; transannular insertion reactions:
 synthetic method

IT Miscellaneous Descriptors
 medicinal chemistry

RN 7440-50-8 (copper)

=> d his

(FILE 'HOME' ENTERED AT 14:56:27 ON 07 JUL 2008)

FILE 'CAPLUS' ENTERED AT 14:56:38 ON 07 JUL 2008
 E US2005-551572/APPS

L1 1 S E3
 SEL RN L1

FILE 'REGISTRY' ENTERED AT 14:57:18 ON 07 JUL 2008
 L2 16 S E1-E16

FILE 'CAPLUS, BIOSIS, EMBASE, MEDLINE, SCISEARCH' ENTERED AT 14:58:32 ON
 07 JUL 2008

L3 1567193 S L2
 L4 329 S L3 AND ("LACTONE RING")
 L5 4 S L4 AND ("TRANSITION METAL")

=> s l5 and ("delivery vehicle")
 L6 0 L5 AND ("DELIVERY VEHICLE")

=> s (pharmaceutical excipient?) and (carrier?)
 L7 640 (PHARMACEUTICAL EXCIPIENT?) AND (CARRIER?)

=> s l7 and cyclodextrin
L8 25 L7 AND CYCLODEXTRIN

=> s l8 and ("transition metal")
L9 0 L8 AND ("TRANSITION METAL")

=> s l8 and (zinc or copper)
L10 1 L8 AND (ZINC OR COPPER)

=> d l10 1 hitstr ibib all

L10 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2008:640989 CAPLUS

DOCUMENT NUMBER: 149:17710

TITLE: Method of preparing solid dosage forms of multi-phasic
pharmaceutical compositions comprising adsorbent
carrier

INVENTOR(S): Shenoy, Dinesh; Lee, Robert; Soppimath, Kumares;h;
Betageri, Guru

PATENT ASSIGNEE(S): Novavax, Inc., USA

SOURCE: PCT Int. Appl., 33pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	---	-----	-----	-----
WO 2008063910	A2	20080529	WO 2007-US84141	20071108
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA,				
CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI,				
GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG,				
KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME,				
MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL,				
PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN,				
TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,				
IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF,				
BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW,				
GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ,				
BY, KG, KZ, MD, RU, TJ, TM				

PRIORITY APPLN. INFO.: US 2006-857511P P 20061108

AN 2008:640989 CAPLUS

DN 149:17710

ED Entered STN: 29 May 2008

TI Method of preparing solid dosage forms of multi-phasic pharmaceutical
compositions comprising adsorbent carrier

IN Shenoy, Dinesh; Lee, Robert; Soppimath, Kumares;h; Betageri, Guru

PA Novavax, Inc., USA

SO PCT Int. Appl., 33pp.

CODEN: PIXXD2

DT Patent

LA English

IC ICM A61K

CC 63-6 (Pharmaceuticals)

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	---	-----	-----	-----
PI WO 2008063910	A2	20080529	WO 2007-US84141	20071108
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA,				

CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI,
 GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG,
 KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME,
 MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL,
 PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN,
 TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW
 RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,
 IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF,
 BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW,
 GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ,
 BY, KG, KZ, MD, RU, TJ, TM

PRAI US 2006-857511P P 20061108

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
------------	-------	------------------------------------

WO 2008063910	ICM	A61K
	IPCI	A61K [ICM, 7]

AB Pharmaceutical formulations comprising a multi-phasic pharmaceutical composition, and an adsorbent carrier, where the pharmaceutical formulation is a solid dosage form. Methods for preparing such pharmaceutical compns. are described. Thus, a multiphasic composition was prepared: Et alc. (8.8 wt%) was mixed with polysorbate 80 (9.4 wt%) and soybean oil (50.2 wt%); water (31.6 wt%) was added and the resulting composition was subjected to emulsification; the emulsion was processed using a high-pressure homogenizer. An active pharmaceutical ingredient may be incorporated in the above preparation

ST solid dosage multiphase adsorbent carrier pharmaceutical

IT Glycerides, biological studies
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (C16-18; method of preparing solid dosage forms of multi-phasic pharmaceutical compns. comprising adsorbent carrier)

IT Fats and Glyceridic oils, biological studies
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (apricot kernel; method of preparing solid dosage forms of multi-phasic pharmaceutical compns. comprising adsorbent carrier)

IT Mental and behavioral disorders
 (attention deficit disorder; method of preparing solid dosage forms of multi-phasic pharmaceutical compns. comprising adsorbent carrier)

IT Essential oils
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (bitter almond; method of preparing solid dosage forms of multi-phasic pharmaceutical compns. comprising adsorbent carrier)

IT Fats and Glyceridic oils, biological studies
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (borage seed; method of preparing solid dosage forms of multi-phasic pharmaceutical compns. comprising adsorbent carrier)

IT Acrylic polymers, biological studies
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (crosslinked; method of preparing solid dosage forms of multi-phasic pharmaceutical compns. comprising adsorbent carrier)

IT Pharmaceutical excipients
 (disintegrants; method of preparing solid dosage forms of multi-phasic pharmaceutical compns. comprising adsorbent carrier)

IT Nervous system
 (dopaminergic; method of preparing solid dosage forms of multi-phasic pharmaceutical compns. comprising adsorbent carrier)

IT Alkaloids, biological studies
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (ergot; method of preparing solid dosage forms of multi-phasic pharmaceutical compns. comprising adsorbent carrier)

IT Fatty acids, biological studies
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (esters, with sorbitan, SPAN; method of preparing solid dosage forms of multi-phasic pharmaceutical compns. comprising adsorbent carrier)

IT Castor oil
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (ethoxylated; method of preparing solid dosage forms of multi-phasic pharmaceutical compns. comprising adsorbent carrier)

IT Fats and Glyceridic oils, biological studies
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (fish; method of preparing solid dosage forms of multi-phasic pharmaceutical compns. comprising adsorbent carrier)

IT Castor oil
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (hydrogenated, ethoxylated, Cremophor RH 40; method of preparing solid dosage forms of multi-phasic pharmaceutical compns. comprising adsorbent carrier)

IT Glycerides, biological studies
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (long-chain; method of preparing solid dosage forms of multi-phasic pharmaceutical compns. comprising adsorbent carrier)

IT Fats and Glyceridic oils, biological studies
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (macadamia nut; method of preparing solid dosage forms of multi-phasic pharmaceutical compns. comprising adsorbent carrier)

IT Glycerides, biological studies
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (medium-chain; method of preparing solid dosage forms of multi-phasic pharmaceutical compns. comprising adsorbent carrier)

IT AIDS (disease)
 Adrenoceptor agonists
 Allergy inhibitors
 Analgesics
 Anesthetics
 Anthelmintics
 Anti-infective agents
 Anti-inflammatory agents
 Antianginal agents
 Antiarrhythmics
 Antibiotics
 Anticoagulants
 Anticonvulsants
 Antidepressants
 Antidiabetic agents
 Antidiuretics
 Antiemetics
 Antihistamines
 Antihypertensives
 Antimigraine agents
 Antioxidants
 Antiparkinsonian agents
 Antithyroid agents
 Antitumor agents
 Antitussives
 Antiviral agents
 Appetite depressants
 Astringents
 Blood products
 Blood substitutes
 Cardiovascular agents

Central nervous system agents
Ceratonina
Chelating agents
Cholinergic agonists
Cholinergic antagonists
Coloring materials
Controlled-release drug delivery systems
Corn
Dermatological agents
Dissolution
Diuretics
Expectorants
Flavoring materials
Fungicides
Gastrointestinal agents
Heart, disease
Hemostatics
Hypnotics and Sedatives
Immunosuppressants
Inotropics
Lubricants
Muscarinic antagonists
Muscle relaxants
Nervous system stimulants
Nutrients
Opioid antagonists
Pharmaceutical capsules
Pharmaceutical foams
Pharmaceutical solids
Pharmaceutical tablets
Preservatives
Respiratory system agents
Stabilizing agents
Sweetening agents
Thrombolytics
Vaccines
Vasodilators
Zea mays

(method of preparing solid dosage forms of multi-phasic pharmaceutical compns. comprising adsorbent carrier)

IT Aluminosilicates, biological studies
Bentonite, biological studies
Canola oil
Cardiolipins
Clays, biological studies
Coconut oil
Corn oil
Corticosteroids, biological studies
Cottonseed oil
Essential oils
Fatty acids, biological studies
Gelatins, biological studies
Glycerides, biological studies
Glycolipids
Hormones, animal, biological studies
Interleukins
Jojoba oil
Kaolin, biological studies
Linseed oil
Olive oil
Peanut oil

Perlite
 Phosphatidic acids
 Phosphatidylcholines, biological studies
 Phosphatidylethanolamines, biological studies
 Phosphatidylglycerols
 Phosphatidylinositols
 Phosphatidylserines
 Phospholipids, biological studies
 Polyoxyalkylenes, biological studies
 Polysaccharides, biological studies
 Polyurethanes, biological studies
 Prostaglandins
 Safflower oil
 Sex hormones
 Silicates, biological studies
 Soybean oil
 Sphingomyelins
 Sunflower oil
 Zeolites (synthetic), biological studies

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (method of preparing solid dosage forms of multi-phasic pharmaceutical compns. comprising adsorbent carrier)

IT Fats and Glyceridic oils, biological studies

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (nut; method of preparing solid dosage forms of multi-phasic pharmaceutical compns. comprising adsorbent carrier)

IT Lard

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (oil; method of preparing solid dosage forms of multi-phasic pharmaceutical compns. comprising adsorbent carrier)

IT Essential oils

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (peppermint; method of preparing solid dosage forms of multi-phasic pharmaceutical compns. comprising adsorbent carrier)

IT Adsorbents

(pharmaceutical; method of preparing solid dosage forms of multi-phasic pharmaceutical compns. comprising adsorbent carrier)

IT Fats and Glyceridic oils, biological studies

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (sesame; method of preparing solid dosage forms of multi-phasic pharmaceutical compns. comprising adsorbent carrier)

IT Fats and Glyceridic oils, biological studies

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (vegetable; method of preparing solid dosage forms of multi-phasic pharmaceutical compns. comprising adsorbent carrier)

IT Fats and Glyceridic oils, biological studies

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (wheat germ; method of preparing solid dosage forms of multi-phasic pharmaceutical compns. comprising adsorbent carrier)

IT 9003-01-4D, crosslinked

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (Carbomer; method of preparing solid dosage forms of multi-phasic pharmaceutical compns. comprising adsorbent carrier)

IT 9003-39-8D, crosslinked

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (Crospovidone; method of preparing solid dosage forms of multi-phasic pharmaceutical compns. comprising adsorbent carrier)

IT 7631-86-9, Silicon dioxide, biological studies

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (colloidal; method of preparing solid dosage forms of multi-phasic pharmaceutical compns. comprising adsorbent carrier)

IT 50-70-4, Sorbitol, biological studies 50-99-7, Dextrose, biological studies 57-11-4, Stearic acid, biological studies 57-48-7, Fructose, biological studies 57-50-1, Sucrose, biological studies 57-55-6, Propylene glycol, biological studies 60-33-3, Linoleic acid, biological studies 63-42-3, Lactose 64-17-5, Ethyl alcohol, biological studies 67-56-1, Methyl alcohol, biological studies 67-68-5, Dimethyl sulfoxide, biological studies 69-65-8, Mannitol 69-79-4, Maltose 69-89-6, Xanthine 79-41-4D, Methacrylic acid, derivs., copolymers 87-99-0, Xylitol 99-20-7, Trehalose 100-51-6, Benzyl alcohol, biological studies 102-76-1, Triacetin 110-17-8, Fumaric acid, biological studies 110-27-0, Isopropyl myristate 111-01-3, Squalane 111-62-6, Ethyl oleate 111-90-0 112-80-1, Oleic acid, biological studies 151-21-3, Sodium lauryl sulfate, biological studies 463-40-1, Linolenic acid 471-34-1, Calcium carbonate, biological studies 538-23-8, Tricaprylin 544-35-4, Ethyl linoleate 546-93-0, Magnesium carbonate 557-04-0, Magnesium stearate 557-05-1, Zinc stearate 577-11-7, Docusate sodium 585-86-4, Lactitol 872-50-4, biological studies 1309-48-4, Magnesium oxide, biological studies 1318-00-9, Vermiculite 1327-43-1, Magnesium aluminum silicate 1335-30-4, Aluminum silicate 1338-39-2, Sorbitan monolaurate 1338-41-6, Sorbitan monostearate 1338-43-8, Sorbitan monooleate 1344-95-2D, Calcium silicate, hydrous 1592-23-0, Calcium stearate 7585-39-9D, β - Cyclodextrin, hydroxypropyl-, sulfobutyl ether-7- 7647-14-5, Sodium chloride, biological studies 7757-93-9, Calcium phosphate dibasic 7758-87-4 7778-18-9, Calcium sulfate 9000-01-5, Acacia gum 9000-07-1, Carrageenan 9000-30-0, Guar gum 9000-65-1, Tragacanth 9002-72-6, Growth hormone 9002-89-5, Polyvinyl alcohol 9003-07-0, Polypropylene 9003-39-8, Povidone 9004-32-4, Carboxymethyl cellulose sodium 9004-34-6D, Cellulose, derivs., polymers 9004-35-7 9004-38-0, Cellulose acetate phthalate 9004-53-9, Dextrin 9004-57-3, Ethyl cellulose 9004-62-0, Hydroxyethyl cellulose 9004-64-2, Hydroxypropyl cellulose 9004-65-3, Hydroxypropyl methylcellulose 9004-74-4, Methoxypolyethylene glycol 9005-25-8, Starch, biological studies 9005-32-7, Alginic acid 9005-38-3, Sodium alginate 9005-64-5, Polysorbate 20 9005-65-6, Polysorbate 80 9005-66-7, Polysorbate 40 9005-67-8, Polysorbate 60 9007-48-1, Polyglyceryl oleate 9010-88-2 9012-76-4, Chitosan 9016-45-9, TERGITOL NP-40 9034-39-3, Growth hormone-releasing hormone 9034-40-6, Luteinizing hormone releasing hormone 9050-04-8 9050-36-6, Maltodextrin 9063-38-1, Sodium starch glycolate 10191-41-0, DL- α -Tocopherol 12174-11-7, Attapulgate 12619-70-4, Cyclodextrin 14807-96-6, Talc, biological studies 17465-86-0, γ - Cyclodextrin 18641-57-1, Glyceryl behenate 22788-19-8, Propylene glycol dilaurate 25086-15-1, Poly(methacrylic acid-methyl methacrylate) 25086-89-9 25087-26-7D, Polymethacrylic acid, derivs., polymers 25212-88-8, Poly(ethyl acrylate-Methacrylic acid) 25322-68-3, Polyethylene oxide 25496-72-4, Glyceryl monooleate 26266-57-9, Sorbitan monopalmitate 26266-58-0, Sorbitan trioleate 27194-74-7 31566-31-1, Glyceryl monostearate 68424-04-4, Polydextrose 71012-10-7, Tetraglyceryl monooleate 74811-65-7, Croscarmellose sodium 106392-12-5, Poloxamer 106602-88-4 176049-28-8 691397-13-4, PLURONIC RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (method of preparing solid dosage forms of multi-phasic pharmaceutical compns. comprising adsorbent carrier)

IT 9004-34-6, Cellulose, biological studies RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (microcryst.; method of preparing solid dosage forms of multi-phasic pharmaceutical compns. comprising adsorbent carrier)

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(FILE 'HOME' ENTERED AT 14:56:27 ON 07 JUL 2008)

FILE 'CAPLUS' ENTERED AT 14:56:38 ON 07 JUL 2008
  E US2005-551572/APPS
L1      1 S E3
        SEL RN L1

FILE 'REGISTRY' ENTERED AT 14:57:18 ON 07 JUL 2008
L2      16 S E1-E16

FILE 'CAPLUS, BIOSIS, EMBASE, MEDLINE, SCISEARCH' ENTERED AT 14:58:32 ON
07 JUL 2008
L3      1567193 S L2
L4      329 S L3 AND ("LACTONE RING")
L5      4 S L4 AND ("TRANSITION METAL")
L6      0 S L5 AND ("DELIVERY VEHICLE")
L7      640 S (PHARMACEUTICAL EXCIPIENT?) AND (CARRIER?)
L8      25 S L7 AND CYCLODEXTRIN
L9      0 S L8 AND ("TRANSITION METAL")
L10     1 S L8 AND (ZINC OR COPPER)

=> s l8 and ("lipid carrier")
L11     0 L8 AND ("LIPID CARRIER")

=> s ("lipid carrier") and (micelle? or nanoparticle?)
L12     358 ("LIPID CARRIER") AND (MICELLE? OR NANOPARTICLE?)

=> s l12 and ("polymeric carrier?")
L13     0 L12 AND ("POLYMERIC CARRIER?")

=> s l12 and polymer?
L14     37 L12 AND POLYMER?

=> d his

(FILE 'HOME' ENTERED AT 14:56:27 ON 07 JUL 2008)

FILE 'CAPLUS' ENTERED AT 14:56:38 ON 07 JUL 2008
  E US2005-551572/APPS
L1      1 S E3
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FILE 'REGISTRY' ENTERED AT 14:57:18 ON 07 JUL 2008
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FILE 'CAPLUS, BIOSIS, EMBASE, MEDLINE, SCISEARCH' ENTERED AT 14:58:32 ON
07 JUL 2008
L3      1567193 S L2
L4      329 S L3 AND ("LACTONE RING")
L5      4 S L4 AND ("TRANSITION METAL")
L6      0 S L5 AND ("DELIVERY VEHICLE")
L7      640 S (PHARMACEUTICAL EXCIPIENT?) AND (CARRIER?)
L8      25 S L7 AND CYCLODEXTRIN
L9      0 S L8 AND ("TRANSITION METAL")
L10     1 S L8 AND (ZINC OR COPPER)
L11     0 S L8 AND ("LIPID CARRIER")
L12     358 S ("LIPID CARRIER") AND (MICELLE? OR NANOPARTICLE?)
L13     0 S L12 AND ("POLYMERIC CARRIER?")
L14     37 S L12 AND POLYMER?

=> s l14 and l8

```

L15 0 L14 AND L8

=> s l14 or l8

L16 62 L14 OR L8

=> s l16 and l5

L17 0 L16 AND L5

=> s l16 or l5

L18 66 L16 OR L5

=> s l18 and l4

L19 4 L18 AND L4

=> dup rem l19 l5

PROCESSING COMPLETED FOR L19

PROCESSING COMPLETED FOR L5

L20 4 DUP REM L19 L5 (4 DUPLICATES REMOVED)

ANSWERS '1-3' FROM FILE CAPLUS

ANSWER '4' FROM FILE BIOSIS

=> d l20 and polymers

'AND' IS NOT A VALID FORMAT

'POLYMERS' IS NOT A VALID FORMAT

In a multifile environment, a format can only be used if it is valid in at least one of the files. Refer to file specific help messages or the STNGUIDE file for information on formats available in individual files.

REENTER DISPLAY FORMAT FOR ALL FILES (FILEDEFAULT):d l20 and polymers

'D' IS NOT A VALID FORMAT

'L105' IS NOT A VALID FORMAT

'AND' IS NOT A VALID FORMAT

'POLYMERS' IS NOT A VALID FORMAT

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REENTER DISPLAY FORMAT FOR ALL FILES (FILEDEFAULT):

REENTER DISPLAY FORMAT FOR ALL FILES (FILEDEFAULT):ibib

L20 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2008 ACS on STN DUPLICATE 1

ACCESSION NUMBER: 2006:1265519 CAPLUS

DOCUMENT NUMBER: 146:107117

TITLE: Transition Metal-Mediated
Liposomal Encapsulation of Irinotecan (CPT-11)
Stabilizes the Drug in the Therapeutically Active
Lactone Conformation

AUTHOR(S): Ramsay, Euan; Alnajim, Jehan; Anantha, Malathi;
Taggar, Aman; Thomas, Anitha; Edwards, Katarina;
Karlsson, Goeran; Webb, Murray; Bally, Marcel

CORPORATE SOURCE: Department of Advanced Therapeutics, BC Cancer Agency,
Vancouver, BC, V5Z 1L3, Can.

SOURCE: Pharmaceutical Research (2006), 23(12), 2799-2808
CODEN: PHREEB; ISSN: 0724-8741

PUBLISHER: Springer

DOCUMENT TYPE: Journal

LANGUAGE: English

REFERENCE COUNT: 36 THERE ARE 36 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d his

(FILE 'HOME' ENTERED AT 14:56:27 ON 07 JUL 2008)

FILE 'CAPLUS' ENTERED AT 14:56:38 ON 07 JUL 2008
E US2005-551572/APPS

L1 1 S E3
SEL RN L1

FILE 'REGISTRY' ENTERED AT 14:57:18 ON 07 JUL 2008
L2 16 S E1-E16

FILE 'CAPLUS, BIOSIS, EMBASE, MEDLINE, SCISEARCH' ENTERED AT 14:58:32 ON
07 JUL 2008

L3 1567193 S L2
L4 329 S L3 AND ("LACTONE RING")
L5 4 S L4 AND ("TRANSITION METAL")
L6 0 S L5 AND ("DELIVERY VEHICLE")
L7 640 S (PHARMACEUTICAL EXCIPIENT?) AND (CARRIER?)
L8 25 S L7 AND CYCLODEXTRIN
L9 0 S L8 AND ("TRANSITION METAL")
L10 1 S L8 AND (ZINC OR COPPER)
L11 0 S L8 AND ("LIPID CARRIER")
L12 358 S ("LIPID CARRIER") AND (MICELLE? OR NANOPARTICLE?)
L13 0 S L12 AND ("POLYMERIC CARRIER?")
L14 37 S L12 AND POLYMER?
L15 0 S L14 AND L8
L16 62 S L14 OR L8
L17 0 S L16 AND L5
L18 66 S L16 OR L5
L19 4 S L18 AND L4
L20 4 DUP REM L19 L5 (4 DUPLICATES REMOVED)

=> s l20 and ("chemotherapeutic drug?")
L21 0 L20 AND ("CHEMOTHERAPEUTIC DRUG?")

=> s l20 and irinotecan
L22 2 L20 AND IRINOTECAN

=> dup rem l22 l20
PROCESSING COMPLETED FOR L22
PROCESSING COMPLETED FOR L20
L23 4 DUP REM L22 L20 (2 DUPLICATES REMOVED)
ANSWERS '1-3' FROM FILE CAPLUS
ANSWER '4' FROM FILE BIOSIS

=> d his

(FILE 'HOME' ENTERED AT 14:56:27 ON 07 JUL 2008)

FILE 'CAPLUS' ENTERED AT 14:56:38 ON 07 JUL 2008
E US2005-551572/APPS

L1 1 S E3
SEL RN L1

FILE 'REGISTRY' ENTERED AT 14:57:18 ON 07 JUL 2008
L2 16 S E1-E16

FILE 'CAPLUS, BIOSIS, EMBASE, MEDLINE, SCISEARCH' ENTERED AT 14:58:32 ON
07 JUL 2008

L3 1567193 S L2

L4 329 S L3 AND ("LACTONE RING")
 L5 4 S L4 AND ("TRANSITION METAL")
 L6 0 S L5 AND ("DELIVERY VEHICLE")
 L7 640 S (PHARMACEUTICAL EXCIPIENT?) AND (CARRIER?)
 L8 25 S L7 AND CYCLODEXTRIN
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 L14 37 S L12 AND POLYMER?
 L15 0 S L14 AND L8
 L16 62 S L14 OR L8
 L17 0 S L16 AND L5
 L18 66 S L16 OR L5
 L19 4 S L18 AND L4
 L20 4 DUP REM L19 L5 (4 DUPLICATES REMOVED)
 L21 0 S L20 AND ("CHEMOTHERAPEUTIC DRUG?")
 L22 2 S L20 AND IRINOTECAN
 L23 4 DUP REM L22 L20 (2 DUPLICATES REMOVED)